UPC-Z

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WASHINGTON STATE BUILDING CODE COUNCIL APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT TO THE WASHINGTON STATE BUILDING CODE

President 5/21/2009

TO THE WASHINGTON STATE BUILDING CODE
1. State Building Code to be Amended.
[] International Building Code [] Ventilation and Indoor Air Quality Code
[] International Residential Code [] International Mechanical Code
[] ICC ANSI A117.1 Accessibility Code [] International Fuel Gas Code
[] International Fire Code [] NFPA 54 National Fuel Gas Code
[X] Uniform Plumbing Code [] NFPA 58 Liquefied Petroleum Gas Code
[] State Energy Code
Section <u>508.2</u> Page <u>44</u>
2. Applicant:
Fast Water Heater Company
3. Signed:

Proponent Title Date

4. Contact Person:

<u>Jeff Jordan</u>

Name Title

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7. Proposed Code Amendmen	it (Underl	ine all add	ed words	s, strike through deleted words)
Additional pages may be attach	ied.			,
Code <u>UPC</u>	Section	<u>508.2</u>	Page	44
Amend section to read as follow	ws:		- 0 _	

In seismic design categories C, D, E, and F, water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one-third (1/3) and lower one-third (1/3) of its vertical dimensions. At the lower point, a minimum distance of four (4) inches (102 mm) shall be maintained above the controls with the strapping.

Exceptions:

- 1. The lower strap may be located above the lower one third (1/3) if necessary to maintain 4" of clearance above the controls.
- 2. Tankless water heaters are exempt from these strapping requirements as long as the equipment is mounted in accordance with the manufacturer's instructions.
- 3. Water heaters less than 24" in height do not require strapping.

8. Background information on amendment.

NOTE: State-wide and emergency state-wide amendments to the state building code should be based on one of the following criteria:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

I am proposing these changes to section 508.2 to reduce inconsistency of how the code is applied and to add clarity for its intent.

Exception #1 is necessary as placement of the strap 4" above the control on every short gas water heater pushes the strap above the 1/3 mark. It is not possible to satisfy the code and the inspectors are not in agreement as to which one takes priority. This amendment would solve this problem.

Exception #2. Tankless water heaters have brackets on the top and bottom that securely mount the equipment to the wall. The purpose of the strapping is to secure a tank style water heater, which has no manufactured means of bracing to the structure. I do not believe it is the intent of this code to include tankless water heaters, yet many inspectors do require the strapping because the code does not make a distinction.

Exception #3. I also propose that water heaters under 24" be exempt from 508.2. Installing two heavy duty straps on a two gallon water heater that is wider than it is tall does not make much sense. I suggested using a 24" rule as this would cover water heaters 15 gallons and under.

Economic Impact Worksheet

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Code References: //PC		Title:	914	r 4101	er h	Foter	inst	//at.on	1100.160	64
Code References: \(\begin{align*} \lambda \beta \\ \lambda \end{align*} Proponent: \(\sum_{\ell} \ell \ell \ell \ell \ell \ell \ell	7 D			Phone: 4	5-636	-7058D	ate: 5	-21-09	,	
Part I & Amendment Benefit: PROBLEM(S) ADDRESSED:										
PRIMARY REASON FOR AMENI ☐ Protect public health, safety and ☐ Reduce cost ☐ "Manage risk" for government	OMENT:	check or	ne only) I Mandat	te from leg	islation o	r courts			outation	,,,
TYPE OF BENEFITS PROJECTED □ Saves lives/reduces injuries □ Protects/improves long-term hea Reduces construction cost: □ Over existing code requirem □ Canceling new code requirem □ Off-setting new code requirem □ Increases construction alternative	Ith ent nent ment	c all that ap	pply) 1 Saves e 1 Protects 1 Increase 1 Reduce 1 Reduce 1 Clarifie 1 Protects	energy s environm es accessib s regulation	ent ility n ent enfor existing oss/dama	cement cos		,		
Part II ❖ Amendment Impacts: TYPES OF CONSTRUCTION: COMPLETE TABLE FOR EACH E V Building Type	BUILDIN	Construction NG TYPE (Truction a	CHECKE		(See rev	ent Improve verse for insverse	struction	epair on items ^a	through ^e) Supporting	
		Cost			l	going	o allor		data attached	
Residential	C/S ^d	Degreee	C/S ^d	Degree	C/Sd	Degree	C/S ^d	Degree	attached ✓	
X Single family	-70		-100	/	9	0	0.0	Dogroo		
X Multi-family	-70-	1	-100	<i>'</i>	5	0				
X Commercial/Retail	-70	7	-100	1	0	0				
X Industrial	-70	1	-100	1	0	Ö			-	
X Government/Utilities	-70	/	-100	1	0	2		1		
Other:	,									
OTHER EFFECTS: Evaluate by number scale 0-3 (0=r C) Likelihood for litigation Decrease public cooperation Disadvantage small business Other	10ne, 3=	significant)	(Spec, Cu	by letter of istom, Fact antage one dvantage o	tory, R ei industry	•	ufact., Other, N.	A)
Part III Comments and Recomme Evaluate each by number scale 0-3 Difficulty to Enforce Costs exceed Benefits C/S Confidence level	6 (0=non Cost		pting am	endment ersv	ΥĄ	luate Yes N Were al N Recomm	ternative	solutions c		